

Harsh Kumar

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EDUCATION

Graphic Era Deemed to be University

Bachelor of Technology in Computer Science and Engineering (GPA: 8.73 / 10.00)

Dehradun, Uttarakhand

Sept 2021- Present

Kendriya Vidyalaya

C.B.S.E (12th) (89.4 %)

Shahjahanpur, Uttarpradesh

April 2020 – March 2021

Kendriya Vidyalaya

C.B.S.E (10th) (87.4 %)

Shahjahanpur, Uttarpradesh

April 2018 – March 2019

PROJECTS

Multiplayer Chess Game | Node.js, Express.js, Socket.IO, JS, Tailwind CSS

June 2024 - July 2024

- Developed a real-time multiplayer chess game with **100% seamless gameplay** using **Node.js, Express.js, and Socket.IO** to enable efficient server-client communication.
 - Designed a responsive interface with Tailwind CSS and JavaScript for a seamless user experience.
 - Optimized game performance for real-time synchronization and low-latency gameplay.
- Live Link:** Play Chess Online **GitHub:** Code

Virtual Mouse | OpenCV, MediaPipe, PyAutoGUI, Python

May 2024 - June 2024

- Implemented a sophisticated hand gesture-based cursor control system using OpenCV, MediaPipe, PyAutoGUI, and pynput, achieving precise movement and control.
 - Enabled precise cursor control with single-click and double-click through gesture recognition.
 - Integrated a screenshot capture feature, expanding the system's capabilities.
- GitHub:** Code

Algorithm Visualizer | React.js, JavaScript

July 2024 - Aug 2024

- Created an interactive algorithm visualizer in React.js for key graph algorithms: Dijkstra's, BFS, DFS, Bellman-Ford, and Kruskal's.
 - Integrated dynamic visualizations to represent algorithm execution, enhancing understanding of graph traversal.
 - Improved user experience with smooth animations and intuitive controls.
- Live Link:** Visualizer **GitHub:** Code

Speech Translator | React.js, JS, APIs for speech-to-text and translation

Dec 2023 - Jan 2024

- implemented a React-based web application for high-accuracy speech-to-text conversion with integrated multi-language translation using modern APIs.
 - Integrated multi-language translation features to convert text into various languages.
 - Optimized real-time translation for seamless user experience and global accessibility.
- Live Link:** Speech Translator **GitHub:** Code

TECHNICAL SKILLS

Languages: C, C++, SQL, JavaScript, HTML, CSS, Java.

Frameworks/Libraries: Express.js, Node.js, ReactJS.

Developer Tools: Git, Github, Google Cloud Platform, VS Code.

Libraries: pandas, NumPy, Opencv, Mediapipe.

Soft skills and Areas of Interest : Problem Solving, Interpersonal Skills.

Database: MySQL, MongoDB.

SCHOLASTIC ACHIEVEMENTS

Solved: 800+ problems combinely on Leetcode and GFG.

Leetcode: Link

GFG: Link

RELEVANT COURSEWORK

Computer Science: Data structures and algorithms, Object-Oriented programming, Database management system, operating system, computer networks.